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Product datasheet for RC220020

OR8G1 (NM_001002905) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OR8G1 (NM_001002905) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	OR8G1
Synonyms:	HSTPCR25; OR8G1P; TPCR25
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC220020 representing NM_001002905
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCAGGAGAAAATAATTCCTCAGTGACTGAGTTCATTCTGGCTGGGCTCTCAGAACAGCCAGAGCTCC
AGCTGCCCCTCTTCCTCCTGTTCTTAGGAATCTATGTGGTCACAGTGGTGGGCAACCTGGGCATGACCAC
ACTGATTTGGCTCAGTTCTCACCTGCACACCCCTATGTACTATTTCCTCAGCAGTCTGTCCTTCATTGAC
TTCTGCCATTCCACTGTCATTACCCCTAAGATGCTGGTGAACTTTGTGACAGAGAAGAACATCATCTCCT
ACCCTGAATGCATGACTCAGCTCTACTTCTTCCTCGTTTTTGCTATTGCAGAGTGTCACATGTTGGCTGC
AATGGCGTATGACCGTTACATGGCCATCTGTAGCCCCTTGCTGTACAGTGTCATCATATCCAATAAGGCT
TGCTTTTCTCTGATTTTAGGGGTGTATATAATAGGCCTGGTTTGTGCATCAGTTCATACAGGCTGTATGT
TTAGGGTTCAATTCTGCAAATTTGATTTGATTAACCATTATTTCTGTGATCTTCTTCCCCTCCTAAAGCT
CTCTTGCTCTAGTATCTATGTCAACAAACTACTTATTCTATGTGTTGGTGCATTTAACATCCTTGTCCCC
AGCCTGACCATCCTTTGCTCTTACATCTTTATTATTGCCAGCATCCTCCACATTCGCTCCACTGAGGGCA
GGTCCAAAGCCTTCAGCACTTGTAGCTCCCACATGTTGGCGGTTGTAATCTTTTTTGGATCTGCAGCATT
CATGTACTTGCAGCCATCTTCAATCAGCTCCATGGACCAGGGGAAAGTATCCTCTGTGTTTTATACTATT
ATTGTGCCCATGTTGAACCCTCTGATTTATAGCCTGAGGAATAAAGATGTCCATGTTTCCCTGAAGAAAA
TGCTACAGAGAAGAACATTATTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC220020 representing NM_001002905
Red=Cloning site Green=Tags(s)

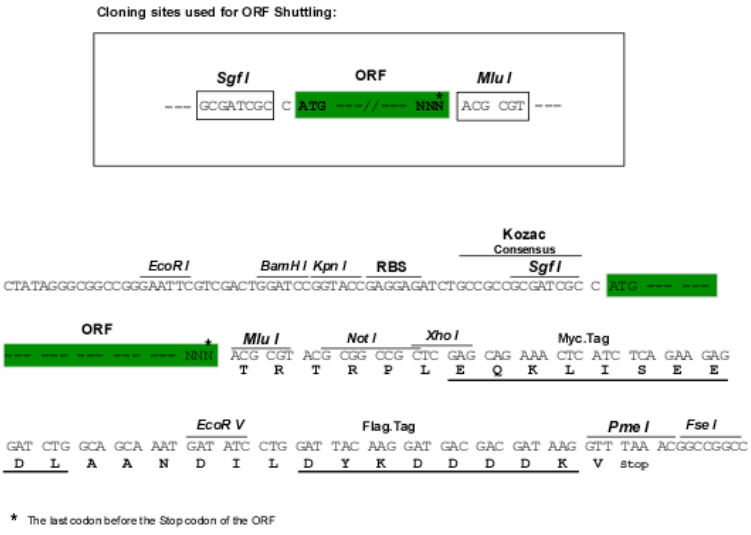
MSGENNSSVTEFILAGLSEQPELQLPLFLLFLGIYVVTVVGNLGMTTLIWLSSHLHTPMYYFLSSLSFID
FCHSTVITPKMLVNFVTEKNIISYPECMTQLYFFLVFAIAECHMLAAMAYDRYMAICSPLLYSVIISNKA
CFSLILGVYIIGLVCASVHTGCMFRVQFCKFDLINHYFCDLLPLLKLSCSSIYVNKLLILCVGAFNILVP
SLTILCSYIFIIASILHIRSTEGRSKAFSTCSSHMLAVVIFFGSAAFMYLQPSSISSMDQGKVSSVFYTI
IVPMLNPLIYSLRNKDVHVSLKKMLQRRTLL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8001_f04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001002905

ORF Size: 933 bp

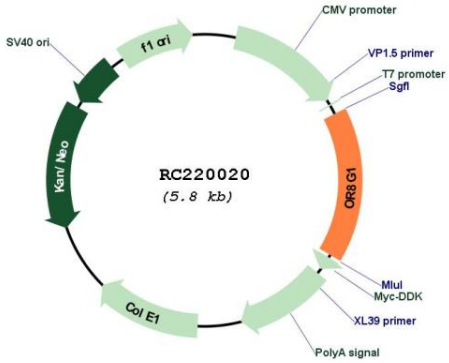
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_001002905.1, NP_001002905.1
RefSeq Size:	936 bp
RefSeq ORF:	936 bp
Locus ID:	26494
UniProt ID:	Q15617
Cytogenetics:	11q24.2
Protein Families:	Transmembrane
Protein Pathways:	Olfactory transduction
MW:	34.7 kDa
Gene Summary:	Olfactory receptors interact with odorant molecules in the nose, to initiate a neuronal response that triggers the perception of a smell. The olfactory receptor proteins are members of a large family of G-protein-coupled receptors (GPCR) arising from single coding-exon genes. Olfactory receptors share a 7-transmembrane domain structure with many neurotransmitter and hormone receptors and are responsible for the recognition and G protein-mediated transduction of odorant signals. The olfactory receptor gene family is the largest in the genome. The nomenclature assigned to the olfactory receptor genes and proteins for this organism is independent of other organisms. This family member represents a polymorphic pseudogene, whereby some individuals have a functional allele that encodes a full-length protein, while others have a non-functional allele due to the presence of an early stop codon and a 3' end deletion. [provided by RefSeq, Feb 2014]

Product images:



Circular map for RC220020